

**IN THE UNITED STATES DISTRICT COURT  
FOR THE EASTERN DISTRICT OF TEXAS  
TYLER DIVISION**

CELLULAR COMMUNICATIONS  
EQUIPMENT LLC,

Plaintiff,

v.

LG ELECTRONICS, INC.,  
LG ELECTRONICS U.S.A., INC.,  
AT&T MOBILITY LLC,  
VERIZON COMMUNICATIONS, INC.,  
CELLCO PARTNERSHIP D/B/A  
VERIZON WIRELESS,  
SPRINT NEXTEL CORPORATION,  
SPRINT SOLUTIONS, INC.,  
SPRINT SPECTRUM L.P.,  
BOOST MOBILE, LLC,  
T-MOBILE USA, INC., and  
T-MOBILE US, INC.,

Defendants.

CIVIL ACTION NO. 6:14-cv-982

**CONSOLIDATED LEAD CASE**

CELLULAR COMMUNICATIONS  
EQUIPMENT LLC,

Plaintiff,

v.

SONY MOBILE COMMUNICATIONS  
INC., SONY MOBILE  
COMMUNICATIONS (USA) INC.,  
AT&T MOBILITY LLC,  
VERIZON COMMUNICATIONS, INC.,  
CELLCO PARTNERSHIP D/B/A  
VERIZON WIRELESS,  
T-MOBILE USA, INC., and  
T-MOBILE US, INC.,

Defendants.

CIVIL ACTION NO. 6:14-cv-983

**PLAINTIFF'S FIRST AMENDED COMPLAINT FOR PATENT INFRINGEMENT**

Plaintiff Cellular Communications Equipment LLC files this First Amended Complaint in Civil Action No. 6:14-cv-00983 (consolidated with Civil Action No. 6:14-cv-00982) against Sony Mobile Communications Inc., Sony Mobile Communications (USA) Inc.; AT&T Mobility LLC; Verizon Communications, Inc., Cellco Partnership d/b/a Verizon Wireless; T-Mobile USA, Inc.; and T-Mobile US, Inc. (collectively, the “Defendants”) for infringement of U.S. Patent No. 8,385,966 (“the ’966 patent”), U.S. Patent No. 8,848,556 (“the ’556 patent”), and U.S. Patent No. 8,868,060 (“the ’060 patent”).

**THE PARTIES**

1. Cellular Communications Equipment LLC (“CCE”) is a Texas limited liability company with its principal place of business in Plano, Texas.

2. On information and belief, Sony Mobile Communications Inc. is incorporated under the laws of Japan with its principal place of business at 1-8-15 Konan, Minato-ku, Tokyo, 108-0075 Japan. This Defendant may be served at its principal place of business at 1-8-15 Konan, Minato-ku, Tokyo, 108-0075 Japan. This Defendant does business in the State of Texas and in the Eastern District of Texas.

3. On information and belief, Sony Mobile Communications (USA) Inc. (with Sony Mobile Communications Inc., “Sony”) is a Delaware corporation with its principal place of business in Atlanta, Georgia. This Defendant may be served with process through its agent, Capitol Services, Inc., 1675 S. State St. Suite B, Dover, Delaware 19901. This Defendant does business in the State of Texas and in the Eastern District of Texas.

4. AT&T Mobility LLC (“AT&T”) is a Delaware limited liability company with its principal place of business in Atlanta, Georgia. This Defendant may be served with process through its agent, The Corporation Trust Company, Corporation Trust Center, 1209 Orange

Street, Wilmington, Delaware 19801. This Defendant does business in the State of Texas and in the Eastern District of Texas.

5. Verizon Communications Inc. is a Delaware corporation with its principal place of business in New York, New York. This Defendant may be served with process through its agent, The Corporation Trust Company, Corporation Trust Center, 1209 Orange Street, Wilmington, Delaware 19801. This Defendant does business in the State of Texas and in the Eastern District of Texas.

6. Cellco Partnership d/b/a Verizon Wireless (with Verizon Communications Inc., “Verizon”) is a Delaware general partnership with its principal place of business in Basking Ridge, New Jersey. This Defendant may be served with process through its agent, The Corporation Trust Company, Corporation Trust Center, 1209 Orange Street, Wilmington, Delaware 19801. This Defendant does business in the State of Texas and in the Eastern District of Texas.

7. T-Mobile USA, Inc. is a Delaware corporation with a principal place of business in Bellevue, Washington. This Defendant may be served with process through its agent, Corporation Service Company, 2711 Centerville Road, Suite 400, Wilmington, Delaware 19808. This Defendant does business in the State of Texas and in the Eastern District of Texas.

8. T-Mobile US, Inc. (with T-Mobile USA, Inc., “T-Mobile”) is a Delaware corporation with its principal place of business in Bellevue, Washington. This Defendant may be served with process through its agent, Corporation Service Company, 2711 Centerville Road, Suite 400, Wilmington, Delaware 19808. This Defendant does business in the State of Texas and in the Eastern District of Texas.

**JURISDICTION AND VENUE**

9. This action arises under the patent laws of the United States, namely 35 U.S.C. §§ 271, 281, and 284-285, among others.

10. This Court has subject matter jurisdiction pursuant to 28 U.S.C. §§ 1331 and 1338(a), and 1367.

11. Venue is proper in this judicial district pursuant to 28 U.S.C. §§ 1391(b) and (c), and 1400(b). On information and belief, each Defendant is deemed to reside in this judicial district, has committed acts of infringement in this judicial district, has purposely transacted business in this judicial district, and/or has regular and established places of business in this judicial district.

12. On information and belief, each Defendant is subject to this Court's specific and general personal jurisdiction pursuant to due process and/or the Texas Long Arm Statute, due at least to their substantial and pervasive business in this State and judicial district, including: (i) at least part of their infringing activities alleged herein; and (ii) regularly doing or soliciting business, engaging in other persistent conduct, and/or deriving substantial revenue from goods sold and services provided to Texas residents.

13. More specifically, Defendants' substantial contacts with the forum include, but are not limited to: (i) the manufacture, marketing, sale, distribution, and use of Sony mobile devices; (ii) the marketing and sale of services for mobile device communications; (iii) the ownership and/or operation of stores where Sony mobile devices are sold and serviced; and/or (iv) the provision of technical and customer support for Sony mobile devices and attendant mobile device communications services.

**COUNT I**

(INFRINGEMENT OF U.S. PATENT NO. 8,385,966)

14. CCE incorporates paragraphs 1 through 13 herein by reference.

15. CCE is the assignee of the '966 patent, entitled "Method, Apparatus, and Computer Program for Power Control Related to Random Access Procedures" with ownership of all substantial rights in the '966 patent, including the right to exclude others and to enforce, sue, and recover damages for past and future infringements. A true and correct copy of the '966 patent is attached as Exhibit A.

16. The '966 patent is valid, enforceable, and was duly issued in full compliance with Title 35 of the United States Code.

17. Defendants Sony, AT&T, T-Mobile, and Verizon have and continue to directly and/or indirectly infringe (by inducing infringement and/or contributing to infringement) one or more claims of the '966 patent in this judicial district and elsewhere in Texas and the United States, including at least claims 1-7 and 10-17, without the consent or authorization of CCE, by or through their making, having made, offering for sale, selling, importing, testing, and/or use of Sony mobile devices, including, for example: the Sony Xperia TL (the "'966 AT&T Mobile Devices"); the Sony Xperia Z, Sony Xperia Z1s, and Sony Xperia Z3 (the "'966 T-Mobile Mobile Devices"); the Sony Xperia Z2 and Sony Xperia Z3v (the "'966 Verizon Mobile Devices"); and the Sony Xperia ZL, Sony Xperia SP, Sony Xperia Tablet Z, Sony Xperia Z1, Sony Xperia T2 Ultra, Sony Xperia T3, Sony Xperia Z Ultra, Sony Xperia Z1 Compact, and Sony Xperia ZR (the "'966 Sony-distributed Mobile Devices"). These devices are collectively referred to as the "'966 Sony Devices."

18. Defendants directly infringe the apparatus claims of the '966 patent by making, using, testing, offering to sell, selling, and/or importing the '966 Sony Devices. Defendants also

directly infringe the '966 patent by making, using, testing, selling, offering for sale, and/or importing the '966 Sony Devices to practice the claimed methods. Defendants are thereby liable for direct infringement.

19. Additionally, Defendants are liable for indirect infringement of the '966 patent because they induce and/or contribute to the direct infringement of the patent by their customers (including, but not limited to, cellular network providers and/or their subscribers) and other end users who use the '966 Sony Devices to practice the claimed methods.

20. Each Defendant is a 3rd Generation Partnership Project (or "3GPP") member organization, or is affiliated with a 3GPP member organization. 3GPP solicits identification of standard essential patents, and, through 3GPP, Defendants received actual notice of the standard essential patents at issue here. The '966 patent is one such patent, and Defendants have known of the patent application that issued as the '966 patent at least as early as June 2011, when it was disclosed to 3GPP via the European Telecommunications Standards Institute ("ETSI," an organizational member of 3GPP).

21. Despite having knowledge of the '966 patent, Defendants named in this Count have and continue to specifically intend for persons who acquire and use such devices, including Defendants' customers, to use such devices in a manner that infringes the '966 patent, including at least claims 1-7. This is evident when Defendants encourage and instruct customers and other end users in the use and operation of the '966 Sony Devices.

22. In particular, despite having knowledge of the '966 patent, Defendants have provided, and continue to provide, instructional materials, such as user guides, owner manuals, and similar online resources (available via <http://support.sonymobile.com/us/> for instance) that specifically teach the customers and other end users to use the '966 Sony Devices in an infringing manner. By providing such instructions, Defendants know (and have known), or

should know (and should have known), that their actions have, and continue to, actively induce infringement.

23. Additionally, Defendants named in this Count know, and have known, that the '966 Sony Devices include proprietary hardware components and software instructions that work in concert to perform specific, intended functions. Such specific, intended functions, carried out by these hardware and software combinations, are a material part of the inventions of the '966 patent and are not staple articles of commerce suitable for substantial non-infringing use.

24. Specifically, each of the '966 Sony Devices contain at least a baseband processor, memory, and a transmitter which contains functionality that is specifically programmed and/or configured to at least initialize a first power control adjustment state for an uplink control channel and a second power control adjustment state for an uplink shared channel, compute an initial transit power for the uplink shared channel using full path loss compensation, and send a message on the uplink shared channel at the initial transmit power, as recited in claims 1-7 and 10-17 of the '966 patent.

25. On information and belief, despite having knowledge of the '966 patent and knowledge that they are directly and/or indirectly infringing one or more claims of the '966 patent, Defendants named in this Count have nevertheless continued their infringing conduct and disregarded an objectively high likelihood of infringement; thus, Defendants' infringing activities relative to the '966 patent have been, and continue to be, willful, wanton, and deliberate in disregard of CCE's rights.

26. On information and belief, Sony and AT&T test, make, use, offer for sale, sell, and/or import the '966 AT&T Mobile Devices described in this Count, pursuant to one or more contractual agreements between them relating to, at least, the distribution and sale of such

devices. Accordingly, Sony and AT&T are jointly, severally, or alternatively liable for infringements described in this Count.

27. On information and belief, Sony and T-Mobile test, make, use, offer for sale, sell, and/or import the '966 T-Mobile Mobile Devices described in this Count, pursuant to one or more contractual agreements between them relating to, at least, the distribution and sale of such devices. Accordingly, Sony and T-Mobile are jointly, severally, or alternatively liable for infringements described in this Count.

28. On information and belief, Sony and Verizon test, make, use, offer for sale, sell, and/or import the '966 Verizon Mobile Devices described in this Count, pursuant to one or more contractual agreements between them relating to, at least, the distribution and sale of such devices. Accordingly, Sony and Verizon are jointly, severally, or alternatively liable for infringements described in this Count.

29. CCE has been damaged as a result of Defendants' infringing conduct described in this Count. Defendants are, thus, liable to CCE in an amount that adequately compensates it for their infringements, which, by law, cannot be less than a reasonable royalty, together with interest and costs as fixed by this Court under 35 U.S.C. § 284.

## **COUNT II**

(INFRINGEMENT OF U.S. PATENT NO. 8,848,556)

30. CCE incorporates paragraphs 1 through 13 herein by reference.

31. CCE is the assignee of the '556 patent, entitled "Carrier Aggregation with Power Headroom Report," with ownership of all substantial rights in the '556 patent, including the right to exclude others and to enforce, sue, and recover damages for past and future infringements. A true and correct copy of the '556 patent is attached as Exhibit B.



32. The '556 patent is valid, enforceable, and was duly issued in full compliance with Title 35 of the United States Code.

33. Defendants Sony, T-Mobile, and Verizon have and continue to directly infringe one or more claims of the '556 patent in this judicial district and elsewhere in Texas and the United States, including at least claims 13-15 and 21-22, without the consent or authorization of CCE, by or through their making, having made, offering for sale, selling, importing, testing and/or use of Sony mobile devices, including, for example: the Sony Xperia Z3 and Sony Xperia Z1s, (the "'556 T-Mobile Mobile Devices"); the Sony Xperia Z3v and Sony Xperia Z2 (the "'556 Verizon Mobile Devices"); and the Sony Xperia Z3 Compact, Sony Xperia Z1 Compact, Sony Xperia Z1, Sony Xperia M2, and Sony Xperia Z Ultra (the "'556 Sony-distributed Mobile Devices"). These devices are collectively referred to as the "'556 Sony Devices."

34. Defendants directly infringe the apparatus claims of the '556 patent by making, using, testing, offering to sell, selling, and/or importing the '556 Sony Devices. Defendants are thereby liable for direct infringement.

35. Each Defendant is a 3rd Generation Partnership Project (or "3GPP") member organization, or is affiliated with a 3GPP member organization. 3GPP solicits identification of standard essential patents, and, through 3GPP, Defendants received actual notice of the standard essential patents at issue here. The '556 patent is one such patent, and Defendants have known of the patent application that issued as the '556 patent at least as early as October 2012, when it was disclosed to 3GPP via the European Telecommunications Standards Institute ("ETSI," an organizational member of 3GPP).

36. On information and belief, despite having knowledge of the '556 patent and knowledge that they are directly infringing one or more claims of the '556 patent, Defendants named in this Count have nevertheless continued their infringing conduct and disregarded an

objectively high likelihood of infringement; thus, Defendants' infringing activities relative to the '556 patent have been, and continue to be, willful, wanton, and deliberate in disregard of CCE's rights.

37. On information and belief, Sony and T-Mobile test, make, use, offer for sale, sell, and/or import the '556 T-Mobile Mobile Devices described in this Count, pursuant to one or more contractual agreements between them relating to, at least, the distribution and sale of such devices. Accordingly, Sony and T-Mobile are jointly, severally, or alternatively liable for infringements described in this Count.

38. On information and belief, Sony and Verizon test, make, use, offer for sale, sell, and/or import the '556 Verizon Mobile Devices described in this Count, pursuant to one or more contractual agreements between them relating to, at least, the distribution and sale of such devices. Accordingly, Sony and Verizon are jointly, severally, or alternatively liable for infringements described in this Count.

39. CCE has been damaged as a result of Defendants' infringing conduct described in this Count. Defendants are, thus, liable to CCE in an amount that adequately compensates it for their infringements, which, by law, cannot be less than a reasonable royalty, together with interest and costs as fixed by this Court under 35 U.S.C. § 284.

### **COUNT III**

(INFRINGEMENT OF U.S. PATENT NO. 8,868,060)

40. CCE incorporates paragraphs 1 through 13 herein by reference.

41. CCE is the assignee of the '060 patent, entitled "Method, Network and Device for Information Provision by Using Paging and Cell Broadcast Services," with ownership of all substantial rights in the '060 patent, including the right to exclude others and to enforce, sue, and

recover damages for past and future infringements. A true and correct copy of the '060 patent is attached as Exhibit C.

42. The '060 patent is valid, enforceable, and was duly issued in full compliance with Title 35 of the United States Code.

43. Defendants Sony, T-Mobile, and Verizon have and continue to directly and/or indirectly infringe (by inducing infringement and/or contributing to infringement) one or more claims of the '060 patent in this judicial district and elsewhere in Texas and the United States, including at least claims 1, 3, 7, 9, and 15, without the consent or authorization of CCE, by or through their making, having made, offering for sale, selling, importing, testing, and/or use of Sony mobile devices, including, for example: the Sony Xperia Z1s and Sony Zperia Z3 (the "'060 T-Mobile Mobile Devices"); the Sony Xperia Z2 and Sony Xperia Z3v (the "'060 Verizon Mobile Devices"); and the Sony Xperia M dual, Sony Xperia M2 dual, Sony Xperia M2, Sony Xperia T2 Ultra, Sony Xperia T3, Sony Xperia Z1 Compact, Sony Xperia Z1, and Sony Xperia Z3 Compact (the "'060 Sony-distributed Mobile Devices"). These devices are collectively referred to as the "'060 Sony Devices."

44. Defendants directly infringe the apparatus claims of the '060 patent by making, using, testing, offering to sell, selling, and/or importing the '060 Sony Devices. Defendants also directly infringe the '060 patent by making, using, testing, selling, offering for sale, and/or importing the '060 Sony Devices to practice the claimed methods. Defendants are thereby liable for direct infringement.

45. Additionally, Defendants are liable for indirect infringement of the '060 patent because they induce and/or contribute to the direct infringement of the patent by their customers (including, but not limited to, cellular network providers and/or their subscribers) and other end users who use the '060 Sony Devices to practice the claimed methods.

46. Each Defendant is a 3rd Generation Partnership Project (or “3GPP”) member organization, or is affiliated with a 3GPP member organization. 3GPP solicits identification of standard essential patents, and, through 3GPP, Defendants received actual notice of the standard essential patents at issue here. The ’060 patent is one such patent, and Defendants have known of the patent application that issued as the ’060 patent at least as early as December 14, 2010, when it was disclosed to 3GPP via the European Telecommunications Standards Institute (“ETSI,” an organizational member of 3GPP).

47. Despite having knowledge of the ’060 patent, Defendants named in this Count have and continue to specifically intend for persons who acquire and use such devices, including Defendants’ customers, to use such devices in a manner that infringes the ’060 patent, including at least claims 1 and 3. This is evident when Defendants encourage and instruct customers and other end users in the use and operation of the ’060 Sony Devices.

48. In particular, despite having knowledge of the ’060 patent, Defendants have provided, and continue to provide, instructional materials, such as user guides, owner manuals, and similar online resources (available via <http://support.sonymobile.com/us/>, for instance) that specifically teach the customers and other end users to use the ’060 Sony Devices in an infringing manner. By providing such instructions, Defendants know (and have known), or should know (and should have known), that their actions have, and continue to, actively induce infringement.

49. Additionally, Defendants named in this Count know, and have known, that the ’060 Sony Devices include proprietary hardware components and software instructions that work in concert to perform specific, intended functions. Such specific, intended functions, carried out by these hardware and software combinations, are a material part of the inventions of the ’060 patent and are not staple articles of commerce suitable for substantial non-infringing use.

50. Specifically, each of the '060 Sony Devices contain at least a baseband processor and memory which contains functionality that is specifically programmed and/or configured to at least store a group of specific identifiers common to a plurality of terminals supporting an emergency warning, check whether a paging message received from a base station includes at least one specific identifier of the group of the specific identifiers, switch to a broadcast mode for receiving broadcast content on a broadcast channel only if the received paging message includes the at least one specific identifier, and establish at least one of a physical channel and a logical channel only if the received paging message includes a temporary mobile subscriber identity allocated to the terminal, as recited in claims 1, 3, 7, 9, and 15 of the '060 patent.

51. On information and belief, despite having knowledge of the '060 patent and knowledge that they are directly and/or indirectly infringing one or more claims of the '060 patent, Defendants named in this Count have nevertheless continued their infringing conduct and disregarded an objectively high likelihood of infringement; thus, Defendants' infringing activities relative to the '060 patent have been, and continue to be, willful, wanton, and deliberate in disregard of CCE's rights.

52. On information and belief, Sony and T-Mobile test, make, use, offer for sale, sell, and/or import the '060 T-Mobile Mobile Devices described in this Count, pursuant to one or more contractual agreements between them relating to, at least, the distribution and sale of such devices. Accordingly, Sony and T-Mobile are jointly, severally, or alternatively liable for infringements described in this Count.

53. On information and belief, Sony and Verizon test, make, use, offer for sale, sell, and/or import the '060 Verizon Mobile Devices described in this Count, pursuant to one or more contractual agreements between them relating to, at least, the distribution and sale of such

devices. Accordingly, Sony and Verizon are jointly, severally, or alternatively liable for infringements described in this Count.

54. CCE has been damaged as a result of Defendants' infringing conduct described in this Count. Defendants are, thus, liable to CCE in an amount that adequately compensates it for their infringements, which, by law, cannot be less than a reasonable royalty, together with interest and costs as fixed by this Court under 35 U.S.C. § 284.

### **JOINDER OF PARTIES**

55. CCE incorporates paragraphs 1 through 54 herein by reference.

56. On information and belief, AT&T, T-Mobile, and Verizon have each purchased or otherwise acquired from Sony certain mobile devices for sale, resale, and/or distribution to their customers (and other end users) that are the subject of Counts I through III (or some subset thereof). Thus, for these Counts, the right to relief against AT&T, T-Mobile, and/or Verizon is asserted jointly and severally with Sony.

57. The alleged infringements set forth in Counts I through III arise out of the same transaction, occurrence, or series of transactions or occurrences relating to the testing, making, using, offering for sale, selling, and/or importing of the Sony mobile devices made the subject of Counts I through III.

58. Questions of fact common to all Defendants will arise in this action including, for example, infringement by, or through use of, Sony mobile devices.

59. Thus, joinder of Sony, AT&T, T-Mobile, and Verizon is proper in this litigation pursuant to 35 U.S.C. § 299(a).

### **JURY DEMAND**

CCE hereby requests a trial by jury pursuant to Rule 38 of the Federal Rules of Civil Procedure.

**PRAYER FOR RELIEF**

CCE requests that the Court find in its favor and against Defendants, and that the Court grant CCE the following relief:

- a. Judgment that one or more claims of the '966, '556, and '060 patents have been infringed, either literally and/or under the doctrine of equivalents, by Defendants and/or by others whose infringements have been induced by Defendants and/or by others to whose infringements Defendants have contributed;
- b. Judgment that Defendants account for and pay to CCE all damages to and costs incurred by CCE because of Defendants' infringing activities and other conduct complained of herein;
- c. Judgment that Defendants account for and pay to CCE a reasonable, ongoing, post-judgment royalty because of Defendants' infringing activities and other conduct complained of herein;
- d. That Defendants' infringements relative to the '966, '556, and '060 patents be found willful from the time that Defendants became aware of the infringing nature of their products, and that the Court award treble damages for the period of such willful infringement pursuant to 35 U.S.C. § 284;
- e. That CCE be granted pre-judgment and post-judgment interest on the damages caused by Defendants' infringing activities and other conduct complained of herein; and
- f. That CCE be granted such other and further relief as the Court may deem just and proper under the circumstances.

**Dated: April 16, 2015**

Respectfully submitted,

/s/ Edward R. Nelson, III

Edward R. Nelson, III

ed@nelbum.com

Texas State Bar No. 00797142

S. Brannon Latimer

brannon@nelbum.com

Texas State Bar No. 24060137

Thomas C. Cecil

tom@nelbum.com

Texas State Bar No. 24069489

NELSON BUMGARDNER, P.C.

3131 West 7<sup>th</sup> Street, Suite 300

Fort Worth, Texas 76107  
Phone: (817) 377-9111  
Fax: (817) 377-3485

T. John Ward, Jr.  
Texas State Bar No. 00794818  
J. Wesley Hill  
Texas State Bar No. 24032294  
Claire Abernathy Henry  
Texas State Bar No. 24053063  
WARD & SMITH LAW FIRM  
P.O. Box 1231  
1127 Judson Rd. Ste. 220  
Longview, Texas 75606-1231  
(903) 757-6400  
(903) 757-2323 (fax)  
jw@jwfirm.com  
wh@wsfirm.com  
claire@wsfirm.com

**ATTORNEYS FOR PLAINTIFF  
CELLULAR COMMUNICATIONS  
EQUIPMENT LLC**

**CERTIFICATE OF CONFERENCE**

The undersigned hereby certifies that counsel for CCE conferred with counsel for all Defendants, and Defendants consented to the filing of this First Amendment Complaint pursuant to Fed. R. Civ. P. 15(a)(2) this 16th day of April, 2015.

/s/ Edward R. Nelson, III



**CERTIFICATE OF SERVICE**

The undersigned hereby certifies that all counsel of record who are deemed to have consented to electronic service are being served with a copy of this document via the Court's CM/ECF system per Local Rule CV-5(a)(3) this 16th day of April, 2015.

/s/ Edward R. Nelson, III